

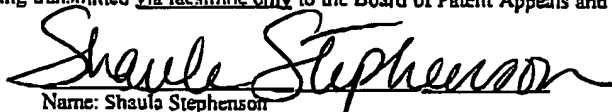
**PATENT**  
**Conf. No. 4778**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: William R. Dunn, et al. Examiner: Tarifur R. Chowdhury  
Serial No. 10/679,977 Group Art Unit: 2871  
Filed: October 7, 2003 Docket No. 73538.020500  
Title: FLAT PANEL DISPLAY HAVING AN ISOLATED EMI LAYER AND  
INTEGRAL HEATER AND THERMAL SENSORS  
Customer No.: 33717

**CERTIFICATE UNDER 37 CFR 1.6(d)**

I hereby certify that this correspondence and identified enclosures are being transmitted via facsimile only to the Board of Patent Appeals and Interferences, Facsimile No. (571) 273-0052 on June 5, 2006.

  
Name: Shaula Stephenson

**SECOND PRE-APPEAL BRIEF REQUEST FOR REVIEW**

Board of Patent Appeals and Interferences  
U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RECEIVED**

JUN - 5 2006

U.S. PATENT AND TRADEMARK OFFICE  
BOARD OF PATENT APPEALS  
AND INTERFERENCES

Sir/Madam:

Transmitted along with this SECOND PRE-APPEAL BRIEF REQUEST FOR REVIEW herewith are a true copy of the PRE-APPEAL BRIEF REQUEST FOR REVIEW and REASONS FOR REQUEST FOR PANEL REVIEW that were filed on February 22, 2006 in the above captioned application. The Request was transmitted with the Notice of Appeal filed on February 22, 2006. These documents are entered into PAIR as a "Transmittal Letter" received on the same date with the Notice of Appeal, February 22, 2006.

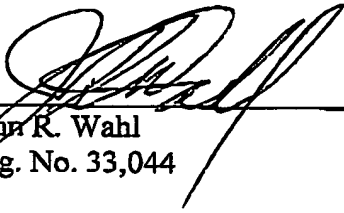
Serial No. 10/679,977

PATENT  
Docket No. 73538.020500

Please conduct the Pre-appeal brief conference review as requested with the Notice of Appeal filed on February 22, 2006. No additional fee is believed to be required.

Respectfully submitted,

Date: June 5, 2006

  
\_\_\_\_\_  
John R. Wahl  
Reg. No. 33,044

Customer Number 33717  
GREENBERG TRAURIG, LLP  
2450 Colorado Avenue, Suite 400E  
Santa Monica, CA 90404  
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LA-FS1410120v01

Doc Code: AP.PRE.REQ

PTO/SB/33 (07-05)

Approved for use through xx/xx/200x. OMB 0651-00xx

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**2ND PRE-APPEAL BRIEF REQUEST FOR REVIEW**

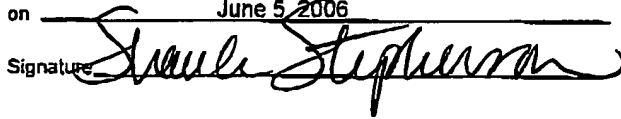
Docket Number (Optional)

73538-020500

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on June 5, 2006

Signature



Typed or printed name Shaula Stephenson

Application Number

10/679,977

Filed

October 7, 2003

First Named Inventor

William R. Dunn, et al.

Art Unit

2871

Examiner

Tarifur R. Chowdhury

Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request.

This request is being filed with a notice of appeal.

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U.S. PATENT AND TRADEMARK OFFICE  
BOARD OF PATENT APPEALS  
AND INTERFERENCES

The review is requested for the reason(s) stated on the attached sheet(s)

Note: No more than five (5) pages may be provided.

I am the

☐

applicant/inventor.

☐

assignee of record of the entire interest.  
See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed.  
(Form PTO/SB/96)

☒

attorney or agent of record.

Registration number 33,044☐

attorney or agent acting under 37 CFR 1.34.

Registration number if acting under 37 CFR 1.34 \_\_\_\_\_

Signature

John R. Wahl

Typed or printed name

(310) 586-6541

Telephone number

June 5, 2006

Date

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☒Total of 2 forms are submitted.

This collection of information is required by 35 U.S.C. 132. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.6. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Mail Stop AF, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/31 (04-05)

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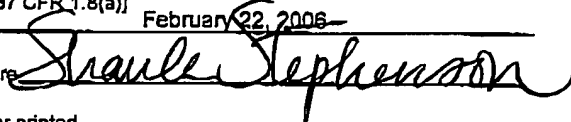
# NOTICE OF APPEAL FROM THE EXAMINER TO THE BOARD OF PATENT APPEALS AND INTERFERENCES

Docket Number (Optional)

73538-020502

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to "Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450" [37 CFR 1.8(a)]  
on February 22, 2006

Signature



Typed or printed name

Shaula Stephenson

In re Application of

William R. Dunn, et al.

Application Number

10/679,977

Filed

October 7, 2003

For

FLAT PANEL DISPLAY HAVING AN ISOLATED EMI LAYER  
AND INTEGRAL HEATER AND THERMAL SENSORS

Art Unit

2871

Examiner

George V. Wang

Applicant hereby appeals to the Board of Patent Appeals and Interferences from the last decision of the examiner.

The fee for this Notice of Appeal is (37 CFR 41.20(b)(1))

\$ 500

☐ Applicant claims small entity status. See 37 CFR 1.27. Therefore, the fee shown above is reduced by half, and the resulting fee is:

\$

☐ A check in the amount of the fee is enclosed.

☐ Payment by credit card. Form PTO-2038 is attached.

☐ The Director has already been authorized to charge fees in this application to a Deposit Account. I have enclosed a duplicate copy of this sheet.

☒ The Director is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 50-2638. I have enclosed a duplicate copy of this sheet.

☐ A petition for an extension of time under 37 CFR 1.136(a) (PTO/SB/22) is enclosed.

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

I am the

☐ applicant/inventor.

☐ assignee of record of the entire interest.  
See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed.  
(Form PTO/SB/96)

☒ attorney or agent of record.

Registration number 33,044

☐ attorney or agent acting under 37 CFR 1.34.

Registration number if acting under 37 CFR 1.34. \_\_\_\_\_

Signature

John R. Wahl

Typed or printed name

(310) 586-6541

Telephone number

February 22, 2006

Date

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☒ \*Total of 2 forms are submitted.

This collection of information is required by 37 CFR 41.31. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11, 1.14 and 41.8. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Doc Code: AP.PRE.REQ

PTO/SB/33 (07-05)

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## PRE-APPEAL BRIEF REQUEST FOR REVIEW

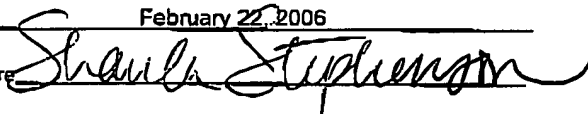
Docket Number (Optional)

73538-020502

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on February 22, 2006

Signature



Typed or printed name

Shaula Stephenson

Application Number

10/679,977

Filed

October 7, 2003

First Named Inventor

William R. Dunn, et al.

Art Unit  
2871

Examiner

George V. Wang

Applicant requests review of the final rejection in the above-identified application. No amendments are being filed with this request.

This request is being filed with a notice of appeal.

The review is requested for the reason(s) stated on the attached sheet(s).

Note: No more than five (5) pages may be provided.

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BOARD OF PATENT APPEALS  
AND INTERFERENCES

I am the

☐

applicant/inventor.

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assignee of record of the entire interest.

See 37 CFR 3.71. Statement under 37 CFR 3.73(b) is enclosed.  
(Form PTO/SB/96)☒

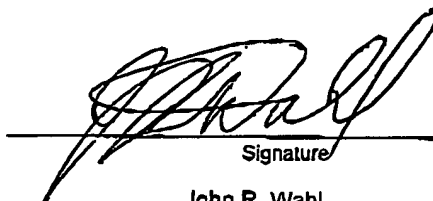
attorney or agent of record.

Registration number 33,044

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attorney or agent acting under 37 CFR 1.34.

Registration number if acting under 37 CFR 1.34



Signature

John R. Wahl

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(310) 586-6541

Telephone number

February 22, 2006

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**PATENT**  
**Conf. No. 4778**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: William R. Dunn, et al. Examiner: George V. Wang  
Serial No. 10/679,977 Group Art Unit: 2871  
Filed: October 7, 2003 Docket No. 73538.020500  
Title: FLAT PANEL DISPLAY HAVING AN ISOLATED EMI LAYER AND  
INTEGRAL HEATER AND THERMAL SENSORS  
Customer No.: 33717

**CERTIFICATE UNDER 37 CFR 1.6(d)**

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Name: Shaula Stephenson

**REASONS FOR REQUEST FOR PANEL REVIEW**

Board of Patent Appeals and Interferences  
U.S. Patent and Trademark Office  
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AND INTERFERENCES

Sir/Madam:

Pre-appeal brief conference review is appropriate when there are clear errors in the Examiner's review and/or the Examiner has omitted one or more essential elements needed for a prima facie rejection. Applicants believe that at least one of these conditions is present here.

Claims 2, 4-10, 12-14 and 16-20 are pending in the application, claims 1, 3, 11 and 15 having been cancelled during prosecution. Claim 12 is the sole independent claim in this application.

The Examiner rejected the single independent claim 12 as anticipated by U.S. Patent No. 6,885,412 to Ohnishi, et al. (Ohnishi), fundamentally asserting that since Ohnishi discloses a flat panel display having a metal oxide heater layer, specifically "ITO." The Examiner stated that

Serial No. 10/679,977

PATENT  
Docket No. 73538.020500

this disclosure broadly anticipates a flat panel display having a metal heater layer integral to the TFT array layer. Applicants assert that this is clear error by the Examiner.

In the Final Office Action, the Examiner stated that Ohnishi, in Figure 3, ref. 8, shows "a metal layer integral to the TFT array layer." O.A., page 3, lines 4-5. In response, Applicants pointed out that Figure 3, ref. 8 is a metal oxide heater film layer, specifically a ITO metal oxide layer, not a metal layer. Ohnishi col. 9, lines 7-13 states that the ref. 8 is a light-transmissive temperature application section made of a metal oxide. Response After Final, pages 1 and 2. Applicants further pointed out that the Examiner failed to provide any support his assertion in any way. Response After Final, page 2, lines 9-10.

In the Examiner's Advisory Action, he states:

"Applicant's argument is that metal is not the same as a metal oxide both 'chemically and electrically'. However true that may be, the fact that the claims are not clear in specifying or distinguishing a metal from a metal oxide layer makes it possible to reject the recited 'metal' layer with the 'metal oxide' layer of Ohnishi."

It is respectfully submitted that Applicants' claim language is quite clear and that the Examiner's interpretation is without foundation and is thus clearly in error. A metal oxide layer is simply not inclusive of a metal layer. The Examiner failed to provide any support for his asserted position that a metal oxide layer broadly encompasses a metal heater layer.

Although Applicants believed additional support for their position regarding the plain meaning of claim terms was unnecessary, Applicants further submitted a Supplemental Response, after receipt of the Advisory Action, that included three references from the Internet that demonstrated that the material referred to commercially as ITO, and referred to as such in Ohnishi, as indium tin oxide is 91 mol% indium oxide ( $\text{In}_2\text{O}_3$ ), with 9 mol% tin oxide ( $\text{SnO}_2$ ), also referred to as tin (IV) oxide, or 90 wt% indium oxide with 10 wt% tin oxide. One reference refers to this as "tin-doped indium oxide." Applicants further stated:

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PATENT  
Docket No. 73538.020500

“Metals are not transparent, although metal oxides can be. Please refer to *Principles of Materials Science and Engineering*, 3<sup>rd</sup> edition, by William F. Smith, page 837, a copy of which is also attached. Referring to ‘metals,’ Professor Smith states that ‘except for very thin sections, metals strongly reflect and/or absorb incident radiation’ and that ‘this type of action results in strongly reflected beams of light from a smooth surface.’ Thus, Applicants urge the Examiner to reconsider his rejection, based on the plain meaning of the term ‘metal’ to one of ordinary skill and its distinction from ‘metal oxide.’”

The Examiner provides no support for his position interpreting “metal oxide” as encompassing “metal” in the Final Office Action and the Advisory Action, which is clearly contrary to common knowledge in the art.

The Examiner further rejected dependent claims 2, 4-9, and 16-17 under 35 USC 103 over Ohnishi in view of combinations of Shin, et al. and Muhlemann. Neither of these additional references disclose metal heater layers. Accordingly they, together with Ohnishi, in any combination, cannot anticipate Applicants’ independent claim 12. For this reason the Examiner’s rejections under both 35 USC 102 and 103 are improper and should be withdrawn. Claim 12 is clearly allowable over the cited prior art. As claims 2, 4-10, 13, 14 and 16-20 depend from claim 12 these claims are also clearly allowable and such action is earnestly solicited.

The rejection in the Final Office Action for double patenting was addressed in the Supplemental Response. A distinguishing amendment was filed in the copending application thus obviating the double patenting rejection.

It is respectfully submitted that the Examiner’s rejections in the Final Office Action and his position in the Advisory Action is clearly erroneous and that the application is in condition for allowance.

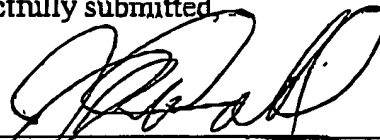


Serial No. 10/679,977

PATENT  
Docket No. 73538.020500

The Director is authorized to charge **\$500.00** in fees for the filing of a Notice of Appeal, as well as any additional fee(s) or any underpayment of fee(s), or to credit any overpayments to **Deposit Account Number 50-2638**. Please ensure that Attorney Docket Number 73538.020500 is referred to when charging any payments or credits for this case.

Respectfully submitted,



John R. Wahl  
Reg. No. 33,044

Date: February 22, 2006

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